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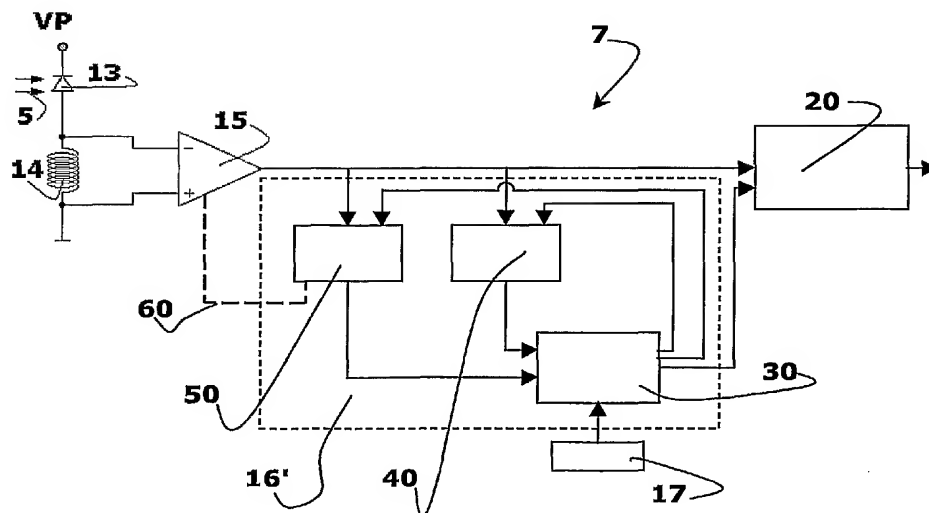
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(54) Title: SYSTEM AND METHOD FOR CHECKING MECHANICAL PIECES, WITH WIRELESS SIGNAL TRANSMISSION



(57) Abstract: A system for detecting the position and/or the dimensions of mechanical pieces (3) includes a checking probe (1) with detection devices (2) and a remote transmitter (4), a receiver (7) being remotely placed from the probe to wirelessly receive, from the remote transmitter, pulse signals (5) indicative of the state of the probe. The receiver includes automatic control circuits that detect the presence of noises (NS) on the basis of attributes, e.g. the distribution in amplitude, of the received signal and, consequently, dynamically vary the sensitivity of the receiver, e.g. by acting on the amplification of the received signal or on a threshold (VTH) with which the received signal is compared. The pulse signals can be of optical type and the automatic control of sensitivity can be active in the presence of noise signals emitted by lamps located in the environment.

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